

Abstract of the invention

A compound or material having safety, namely, biocompatibility that exhibits such a nongel-gel transition that the state of being nongel is presented on the side of low temperature while the state of being crosslinked, for example, gel is presented on the side of high temperature. There is provided a crosslinked polyrotaxane at least two molecules of polyrotaxane consisting of cyclodextrin molecules having a linear molecule included in a skewed manner in cavities thereof and having capping groups at each end of the linear molecule so as to prevent detachment of the cyclodextrin molecules, the above at least two molecules of polyrotaxane crosslinked with each other via physical bonds, characterized in that the hydroxyls (-OH) of the cyclodextrin molecules are partially or wholly substituted with non-ionic groups.